



# CoreLine Highbay

## BY121P G3 LED205S/840 PSU WB GR

Generation 3 - LED module, system flux 20500 lm - 840 neutral white - Power supply unit - Wide beam - Gray

Following the successful introduction of the CoreLine High-bay in 2013, the upgrade to a new generation further improves the total cost of ownership and provides optionally DALI dimming for even further savings. Designed as a replacement for HPI 250/400 W luminaires, CoreLine High-bay G3 offers customers all the benefits of LED lighting – fresh light quality, longer service lifetime, reduced energy consumption and less maintenance – from a trusted manufacturer. At the same time, it delivers clear benefits for the installer too. The luminaire can be installed on the existing grid. Electrical connection is straightforward: there is no need to open the luminaire for installation or servicing. And being smaller and lighter than conventional luminaires, it is very easy to handle.

### Product data

| General Information           |   | Control interface    |  |
|-------------------------------|---|----------------------|--|
| Number of light sources       | 1 pc  | Control interface    | -  |
| Lamp family code              | LED205S [ LED module, system flux 20500 lm] | Connection           | Connection unit 3-pole   |
| Beam angle of light source    | - °   | Cable                | Cable 0.5 m with cable connector 3-pole  |
| Light source color            | 840 neutral white                           | Protection class IEC | Safety class I   |
| Light source replaceable      | No  | Glow-wire test       | Temperature 650 °C, duration 5 s   |
| Number of gear units          | 1 unit                                      | Flammability mark    | For mounting on normally flammable surfaces  |
| Driver/power unit/transformer | Power supply unit                           | CE mark              | CE mark  |
| Driver included               | Yes   | ENEC mark            | -  |
| Optic type                    | Wide beam                                   | Warranty period      | 3 years + 2 years upon registration  |
| Optical cover/lens type       | Polycarbonate bowl/cover                    | Remarks              | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen |
| Luminaire light beam spread   | 100°  |                      |  |

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|  |  |
|--|--|
|  | maintenance between B50 and for example B10. Therefore the median useful life (B50) value also represents the B10 value. |
| Constant light output                    | No   |
| Number of products on MCB of 16 A type B | 11   |
| RoHS mark                                | RoHS mark  |
| Light source engine type                 | LED  |
| Service tag                              | Yes  |

## Operating and Electrical

|                               |              |
|-------------------------------|--------------|
| Input Voltage                 | 220 to 240 V |
| Input Frequency               | 50 to 60 Hz  |
| Control signal voltage        | -            |
| Average CLO power consumption | false W      |
| Inrush current                | 46 A         |
| Inrush time                   | 0.44 ms      |
| Power Factor (Min)            | 0.9          |

## Controls and Dimming

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

## Mechanical and Housing

|                             |               |
|-----------------------------|---------------|
| Housing Material            | Aluminum      |
| Reflector material          | -             |
| Optic material              | Polycarbonate |
| Optical cover/lens material | Polycarbonate |
| Fixation material           | -             |
| Optical cover/lens finish   | Clear         |
| Overall length              | 454 mm        |
| Overall width               | 452 mm        |
| Overall height              | 152 mm        |
| Overall diameter            | 452 mm        |
| Diameter                    | -             |
| Color                       | Gray          |

## Approval and Application

|                         |   |
|-------------------------|---|
| Ingress protection code | IP65 [ Dust penetration-protected, jet-proof] |
|-------------------------|---|

|                              |                        |
|------------------------------|------------------------|
| Mech. impact protection code | IK07 [ 2 J reinforced] |
|------------------------------|------------------------|

## Initial Performance (IEC Compliant)

|                                     |                      |
|-------------------------------------|----------------------|
| Initial luminous flux (system flux) | 20500 lm             |
| Luminous flux tolerance             | +/-10%               |
| Initial LED luminaire efficacy      | 130 lm/W             |
| Init. Corr. Color Temperature       | 4000 K               |
| Init. Color Rendering Index         | ≥80                  |
| Initial chromaticity                | (0.38, 0.38) SDCM <5 |
| Initial input power                 | 155 W                |
| Power consumption tolerance         | +/-10%               |

## Over Time Performance (IEC Compliant)

|   |     |
|---|-----|
| Control gear failure rate at median useful life 50000 h | 5 % |
| Lumen maintenance at median useful life* 50000 h        | L70 |

## Application Conditions

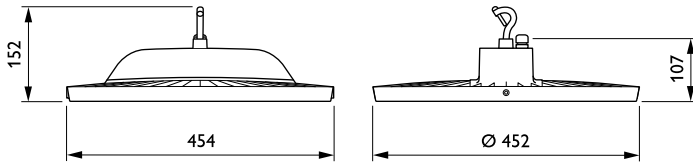
|                                    |                |
|------------------------------------|----------------|
| Ambient temperature range          | -30 to +45 °C  |
| Performance ambient temperature Tq | 25 °C          |
| Maximum dim level                  | Not applicable |
| Suitable for random switching      | Yes            |

## Product Data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Full product code               | 871016330145700                 |
| Order product name              | BY12IP G3 LED205S/840 PSU WB GR |
| EAN/UPC - Product               | 8710163301457                   |
| Order code                      | 911401505431                    |
| Numerator - Quantity Per Pack   | 1                               |
| Numerator - Packs per outer box | 1                               |
| Material Nr. (12NC)             | 911401505431                    |
| Net Weight (Piece)              | 4.800 kg                        |

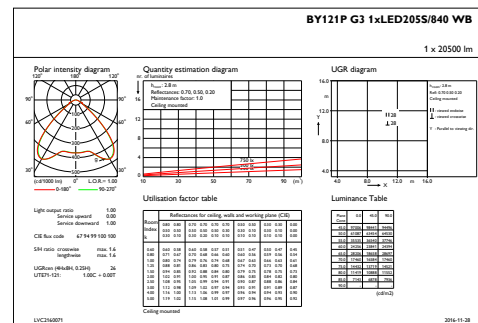
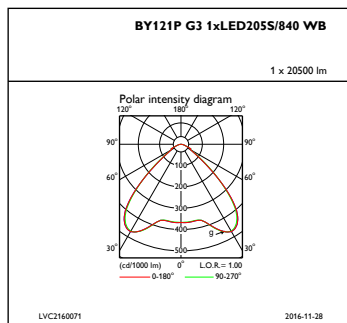
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## Dimensional drawing



CoreLine High-bay BY120P/BY121P

## Photometric data



IFPC1\_BY121PG31xLED205S840WB

IFGU1\_BY121PG31xLED205S840WB

